

EXHIBIT 5

Instruction Manual

Funkfernsteuersysteme

für Bau-, Lade- und Industriekrane, Seilwinden, unbemannte Fahrzeuge, Proportionalsteueranlagen, Sondergeräte

TUNING OF THE RECEIVER UNIT E4

1. Tuning of the IF frequency

With the inductors L2, L3 and L7 the LF signal can be tuned to the maximum.
The signal-to-noise-distance has to be > 25 dB

2. Oscillator tuning

Switch the desired frequency with the quartz 3.

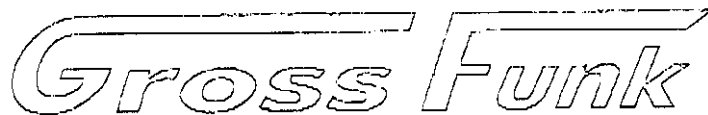
With L5, L6 and the helix filter 3 the signal on PIN 22 has to be tuned to the maximum.

With L4 tune the desired frequency

With the trimmer C10, C12 and C16 the frequencies of the quartz 1,2 and 4 can be tuned.

With the helix filters 1 and 2 the NF is tuned to the maximum.

The signal-to-noise-distance has to be min. 10 dB



FCC ID: NRXGFE

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RECEIVER UNIT E4 :

1. Connect the earth cable to the analog ground (gray cable)
2. Connect power +8 volt to the red cable.
3. Connect antenna or test equipment to the output socket (Impedance 50 Ohm)
4. Select the desired channel with the switch (+2,5 - 8 V).

channel 1	brown
channel 2	blue
channel 3	orange
channel 4	yellow
5. The output signal can be optimized on the LF output (purple cable). Output tunable around 500 millivolt pp
Output impedance around 1 Kohm.
6. The noise level can be checked on the red cable.

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DESCRIPTION RECEIVER 450.000 MHz :

The UHF receiver is working between 450.000 to 470.000 MHz and it was developed for working as a double transmitting unit.

The first block includes a quartz oscillator with 4 switchable quartz and a 6 time multiplexer.

The input signal is converted to an IF of 21.4 MHz.

The second frequency is below the frequency band.

For the double transmitting, the second IF is converted to a frequency of 455.00 kHz.

The receiver is working in frequency-modulation-mode (FM).

Power supply is DC +8 volts.

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MANUEL RECEIVER UNIT E4 :

1. Connect the earth cable to the analog ground (gray cable)
2. Connect power +8 volt/DC to the red cable.
3. Connect antenna or test equipment to the output socket (Impedance 50 Ohm)
4. Select the desired channel with the switch (+2,5 - 8 V).

channel 1	brown
channel 2	blue
channel 3	orange
channel 4	yellow
5. The output signal can be optimized on the LF output (purple cable). Output tunable around 500 millivolt pp
Output impedance around 1 Kohm.
6. The noise level can be checked on the red cable.